

(Published Papers)



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500kV Gun development at KEK	Masahiro Yamamoto Yosuke Honda Tsukasa Myajima Ryoji Nagai Ryoichi Hajima Nobuyuki Nishimori Toshiya Muto Hokuto Iijima Masao Kuriki Makoto Kuwahara Shoji Okumi Tsutomu Nakanishi Tohru Ujihara Yoshikazu Takeda Hiroki Kurisu	48th ICFA Advanced Beam Dynamics Workshop on Future Light Sources, March 1-5, 2010				(2010)	
A study of Lifetime of GaAs Photocathode for High Brightness Electron Source	Chie Shonaka Masao Kuriki Daisuke Kubo Hiromi Okamoto Hiroyuki Higaki Kiyokazu Ito Masahiro Yamamoto Taro Konomi Shoji Okumi Tsuyoshi Nakanishi	Proc. Of 23 rd Particle Accelerator Conference(PACO9), Vancouver, Canada,			MD6RFPO69	(2009)	
Darklifetime degradation of GaAs cathode	M Kuriki C. Shonaka D. Kubo H. Okamoto H. Higaki K. Ito M Yamamoto T. Konomi S. Okumi M Kuwahara T. Nakanishi	WS on Ultrafast electron and photon beams, Xian, China				(2009)	
DESIGN AND FABRICATION OF A 500-KV PHOTOCATHODE DC GUNFOR ERL LIGHT SOURCES	R. Hajima N. Nishimori R. Nagai H. Iijima M Yamamoto T. Muto Y. Honda T. Myajima M Kuriki	Proc. Of 23 rd Particle Accelerator Conference(PACO9), Vancouver, Canada,			cle MD6RFPO69 (2 9)		

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High-voltage test of 500-kV DC photo-cathode electron gun	Ryoji Nagai Ryoichi Hajima Nobuyuki Nishimori Toshiya Muto Masahiro Yamamoto Yosuke Honda Tsukasa Myajima Hokuto Iijima Masao Kuriki Makoto Kuvahara Shoji Okumi Tsutomu Nakanishi	Review of Science Instruments	81	33304		(2010)	
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First-Principles Study on the Magnetic Anisotropy in Multiferroic PbVO ₃ and BiCoO ₃	Y. Uratani T. Shishidou T. Oguchi	J. Phys. Soc. Jpn.	78		084709/1-6	(2009)	

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Direct verification of Ga-Ga bond avoidance in the type-I clathrate $Ba_8Ga_{16}Sn_{30}$ from its x-ray absorption fine structure	M. Kozina F. Bridges Y. Jiang M.A. Avila K. Suekuni T. Takabatake	Phys. Rev. B	80	21	212101(1-4)	(2009)	
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Magnetic properties of RPd ₅ Al ₂ (R=Y, Ce, Pr, Nd, Sm, Gd)	R.A. Ribeiro Y.F. Inoue T. Onimaru M.A. Avila K. Shigetoh T. Takabatake	Physica B- Condensed Matter	404	19	2946- 2948	(2009)	
Magnetocrystalline Anisotropy and Crystal Fields in the Weak-Ferromagnet Ce ₄ Ni ₃ Pb ₄	K. Shigetoh T. Onimaru A. Ishida M. Akita K. Inoue M. Nishi T. J. Sato D. T. Adroja T. Takabatake	Journal of the Physical Society of Japan	78	2	024701- 1- 5	(2009)	
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Off-center guest vibrations and their effect on lattice thermal conductivity in n- and p-type Ba ₈ Ga ₁₆ Sn ₃₀	K. Suekuni T. Tanaka S. Yamamoto M.A. Avila K. Urneo Y. Takasu T. Hasegawa N. Ogita M. Udagawa T. Takabatake	J. Electronic Materials	38	7	1516- 1520	(2009)	
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Pressure-induced quantum critical phenomena in YbNiGe ₃	K. Umeo N. Hosogi M. A. Avila T. Takabatake	Phys. Status Solidi B	247	3	751 -	(2010)	
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Conductance distribution in disordered quantum wires with a perfectly conducting channel	Y. Takane S. Iwasaki Y. Yoshioka M Yamamoto K. Wakabayashi	J. Phys. Soc. Jpn.	78	3	034717 (6 pages)	(2009)	
Edge effect on electronic transport properties of graphene nanoribbons and presence of perfectly conducting channel	K. Wakabayashi Y. Takane M Yamamoto M Sigrist	Carbon	47	1	124-137	(2009)	
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Recyclable Hydrogen Storage System Composed of Ammonia and Alkali Metal Hydride		International Journal of Hydrogen Energ		34	9760	(2009)	
Thermodynamic Properties of Metal Amides Determined by Ammonia Pressure-Composition Isotherms	H. Nakanishi Takayuki Ichikawa Yoshitsugu Kojima	Journal of Chemical Thermodynamics		42	140	(2009)	
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Thermodynamic Properties of Lithium Amide under Hydrogen Pressure determined by Raman Spectroscopy	Satoshi Hino Norio Ogita Masayuki Udagawa Takayuki Ichikawa Yoshitsugu Kojima	J. Appl. Phys.		105	023527	(2009)	
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B. (Dept. of Molecular Biotechnology)

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Extensive mutational analysis of the modular-iterative mixed biosynthesis of lankacidin in <i>Streptomyces rochei</i>	Tatsuno, S Arakawa, K Kinashi, H	Biosci. Biotechnol. Biochem,	73		2712-2719	(2009)	
Identification of a gene cluster of polyether antibiotic lasalocid from <i>Streptomyces lasaliensis</i>	Mgita, A Watanabe, M Hirose, Y Watanabe, K Tokiwano, T Kinashi, H Oikawa, H	Biosci. Biotechnol. Biochem	73		169-176	(2009)	
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Continuous-flow ATP amplification system on a chip	Tetsuya Satoh Yasuharu Shinoda Shiho Tokonami Ryuichi Hirota Kenichi Noda Akio Kuroda Yuji Murakami	Sensors and Actuators B: Chemical	142	1	118-122	(2009)	
Detection of living <i>Salmonella</i> cells using bioluminescence	Masaaki Urata Rei Iwata Kenichi Noda Yuji Murakami Akio Kuroda	Biotechnology Letters.	31	5	737-741	(2009)	
Endotoxin assay by bioluminescence using mutant firefly luciferase	Kenichi Noda Hitoshi Goto Yuji Murakami Abo, Bakr. F. Ahmed Akio Kuroda	Analytical Biochemistry	397	2	152-155	(2010)	
High-sensitivity detection of ATP using bioluminescence at an optical fiber end	Masataka Iinuma Yasuaki Ushio Akio Kuroda Yutaka Kadoya	Electronics and Communications in Japan	92	9	1498-1503	(2009)	
Oriented immobilization of antibodies on a silicon wafer using Si-tagged protein A	Takehi Ikeda Yumehiro Hata Ken-ichi Ninomiya Yoshiaki Ikura Keigo Takeguchi Satoka Aoyagi Ryuichi Hirota Akio Kuroda	Analytical Biochemistry	385	1	132-137	(2009)	

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Selective detection of airborne asbestos fibers using protein-based fluorescent probes	Takenori Ishida Maxym Alexandrov Tomoki Nishimura Kenji Mnakawa Ryuichi Hirota Kiyoshi Sekiguchi Norihiko Kohyama Akio Kuroda	Environmental Science and Technology	44	2	755-759	(2009)	
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		Journal of Environmental Biotechnology	9	2	101-104	(2009)	
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49 mW 5 Gbit/s CMDS receiver for 60 GHz impulse radio	A. Oncu M Fujishima	Electronics Letters	vol 45	Issue 17	889-890	(2009)	
50 GHz S-shaped rat-race balun with 1.4 dB insertion loss in a wafer-level chip-size package process	A. Oncu C. Inui Y. Manzava M Fujishima	International Journal of Microwave and Wireless Technologies			347-352	(2009)	
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31.25 ps Differential Equivalent Time Sampling Circuit Using 65 nm CMOS Technology	A.Toya N.Sasaki S.Kubota T.Kikkawa	Ext. Abst. of the 2009 Int. Conf. on Solid State Devices and Materials, Sendai,			pp. 456-457	(2009)	
A 3.5-4.5 GHz CMOS UWB Receiver Frontend LNA with On-chip Integrated Antenna for Inter-chip Communication	A.Azhari K.Kimoto N.Sasaki T.Kikkawa	Ext. Abst. of the 2009 Int. Conf. on Solid State Devices and Materials, Sendai,			pp. 68-69	(2009)	
A Novel CMOS 800 Mb/s BPSK Detector for IR-UWB Communication	M.Hafiz N.Sasaki T.Kikkawa	Ext. Abst. of the 2009 Int. Conf. on Solid State Devices and Materials, Sendai, Japan			pp. 66-67	(2009)	
A Novel CMOS BPSK Detection Scheme for UWB Impulse-Radio Communication	Mohiuddin Hafiz Takamaro Kikkawa	22			pp. a-6	(2009)	
A Single-Chip Ultra-Wideband Receiver with Silicon Integrated Antennas for Inter-Chip Wireless Interconnection	N.Sasaki K.Kimoto W.Moriyama T.Kikkawa	IEEE Journal of Solid- State Circuits	44	2	pp. 382-393	(2009)	
A Ternary Multi-Ported Content Addressable Memory Architecture utilizing Asynchronous Multiple Search- Operation Technology	T. Kumaki M Tagami Y. Imai T. Koide H.J. Mattausch	15th Workshop on Synthesis and System Integration of Mixed Information Technologies (SASIM'2009)			pp. 224-229	(2009)	
A Wireless Chip for Intra-Oral Temperature Measurement	Tomohiro Ishikawa Yoshihiro Masui Koh Johguchi Takeshi Yoshida Yuji Murakami	Proc. of The 15th Workshop on Synthesis And System Integration of Mixed Information technologies (SASIM 2009)			pp. 477-481	(2009)	
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Anomalous Amorphization Resistance of Ge against 11B+ Implantation	Kentarō Shibahara Kosei Osada	Ext. Abs. the 9th International Workshop on Junction Technology			pp. 104-105	(2009)	
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Characterization of Ge Photodetectors Fabricated on Vicinal Si Substrate	K. Kuriyama Y. Amemiya K. Terao S. Yokoyama	Jpn. J. App. Phys.	48	4	pp. 04C112-1-04C112-5	(2009)	
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Continuous-flow ATP amplification system on a chip	Tetsuya Satoh Yasuharu Shinoda Shiho Tokonami Kenichi Noda Akio Kuroda Yuji Murakami	Sensors and Actuators B				(2009)	
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Detection of living Salmonella cells using bioluminescence	Masaaki Urata Rei Iwata Kenichi Noda Yuji Murakami Akio Kuroda	Biotechnology Letters	31		pp. 737-741	(2009)	

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Effects of Si/Ni Composition Ratio of Ni _x Si _y Gate Electrode and Hf/Si Composition Ratio of Hf- Based High-k Insulator on Threshold Voltage Controllability and Mobility of Metal-Oxide-Semiconductor Field-Effect Transistors	Masayuki Terai Takashi Hase Kentaro Shibahara Hirohito Watanabe	Jpn. J. Appl. Phys.	49	3	36504- 1- 36504- 7	(2010)	
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